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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,212	03/26/2004	Hwa-Chun Lin	250908-1230	1953
24504	7590	12/19/2005	EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP			PORTIS, SHANTELL L	
100 GALLERIA PARKWAY, NW			ART UNIT	
STE 1750			PAPER NUMBER	
ATLANTA, GA 30339-5948			2681	

DATE MAILED: 12/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/811,212	Applicant(s) LIN ET AL.	
	Examiner Shantell Portis	Art Unit 2681	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 March 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-10 is/are allowed.
- 6) ☒ Claim(s) 11 and 15 is/are rejected.
- 7) ☒ Claim(s) 12-14 and 16-18 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 11 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toyoda et al. (Toyoda), U.S. Patent No. 6,594,490 in view of Cropper, U.S. Patent No. 5,819,178.

Regarding Claims 11 and 15, Toyoda discloses a method for handling mobile database overflow, by searching for an overflow user, comprising the steps of: Searching for the mobile user (mobile station) when receiving a call request to a mobile user (Col. 6, lines 14-18); determining whether the value of the location code (authentication flag) of the mobile user is a predetermined value (the value is predetermined at either "0" or "1"; Col. 15, lines 4-14 and Col. 16, lines 1-18); setting up the call between the caller and the mobile user if the value of the location code is the predetermined value (Col. 16, lines 9-18); and obtaining the location information the mobile user in accordance with the location code (paging process is performed to obtain and verify the mobile station location information; Col. 16, lines 9-18) and a location information table if the value of the location code is not the predetermined value (it is obvious that the location information relief processing section would have a table or some type of database for obtaining the mobile station location information, this process

Art Unit: 2681

is done whether the authentication flag is the predetermined value or not; Col. 15, lines 59-67).

Toyoda fails to disclose re-registering the mobile user for communication.

In a similar field of endeavor, Cropper discloses a methods and apparatus for accessing subscriber information in interconnected wireless telecommunications networks. Cropper further discloses re-registering the mobile user for communication (Col. 6, lines 1-16).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify Toyoda according to Cropper to allow for the flushing operation to eliminate subscriber data no longer being served and to make room for the visiting subscriber data (Col. 6, lines 11-16).

***Allowable Subject Matter***

3. Claims 12-14 and 16-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claims 1-10 are allowed.

5. The present invention is drawn to a method for handling mobile database overflow, registering and un-registered mobile user located in a location area. The closet prior art of record Nguyen et al. (Nguyen), U.S. Patent No. 6,021,327 discloses a mobile communication system having improved visitor location register content management and method of operation. The prior art further discloses obtaining a registration request from a first mobile user; determining whether the database of a

Art Unit: 2681

visitor location register (VLR) is full; registering the first mobile user to a home location register (HLR) if the database of the VLR is not full; temporarily storing user data of the first mobile user in the VLR (Col. 4, lines 40-60 and Col. 7, line 52-Col. 8, line 17); and deleting user data of the second mobile user and temporarily storing the user data of the first mobile user in the VLR (Col. 5, lines 34-49). The prior art fails to disclose translating the location information of a second mobile user registered in the VLR into a second location code if the database of the VLR is full; transferring the registration request and the second location code to the HLR; and resetting the value of a first location code of the first mobile user as a predetermined value as required in the present invention.

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Vaisanen, U.S. Publication No. 2002/0002048 discloses a roaming in ATM network.

Ho et al., U.S. Patent No. 6,224,477 discloses a method for ordering subscriber records of wireless communication networks.

Salmivalli, U.S. Patent No. 6,324,399 discloses a method and arrangement for controlling subscriber registrations in a mobile communication system.

Takubo et al., U.S. Patent No. 6,597,909 discloses an apparatus and a method for performing a call control in a mobile communication system.


Art Unit: 2681


Nakamura et al., U.S. Patent No. 6,463,284 discloses a control of storage of subscriber data in mobile communication system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shantell Portis whose telephone number is 571-272-0886. The examiner can normally be reached on Monday-Friday 7:00am-3:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Slp

  
ERIKA A. GARY  
PRIMARY EXAMINER